LOADING ARRANGEMENTS

- Pilot or passenger center of gravity on adjustable seats positioned for average occupant. Numbers in parentheses indicate forward and aft limits of occupant center of gravity range.
- ** Arm measured to the center of the areas shown.

- NOTES: 1. The usable fuel C.G. arm for integral tanks is located at station 48.0.
 - 2. The rear cabin wall (approximate station 108) or aft baggage wall (approximate station 142) can be used as convenient interior reference points for determining the location of baggage area fuselage stations.

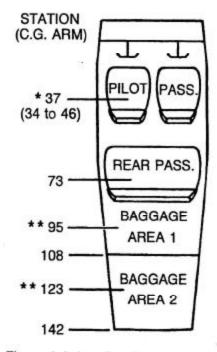
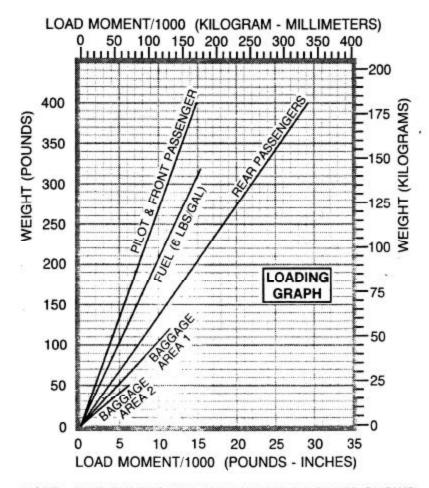


Figure 6-3. Loading Arrangements

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NOTE: LINE REPRESENTING ADJUSTABLE SEATS SHOWS THE PILOT OR PASSENGER CENTER OF GRAVITY ON ADJUSTABLE SEATS POSITIONED FOR AN AVERAGE OCCUPANT. REFER TO THE LOADING ARRANGEMENTS DIAGRAM FOR FORWARD AND AFT LIMITS OF OCCUPANT C.G. RANGE.

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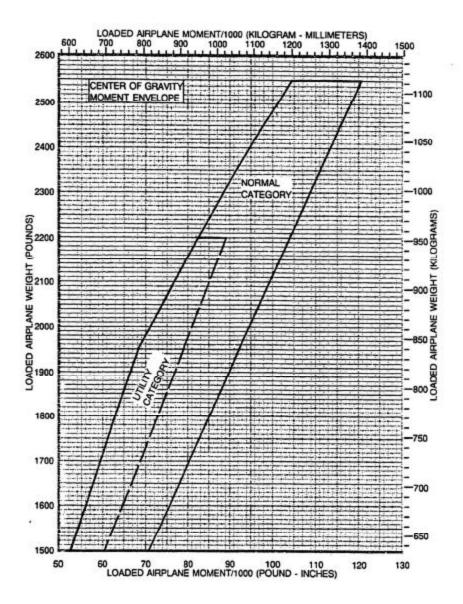
Figure 6-6. Loading Graph

		WEIGHT AND MOMENT TABULATION			
ITEM DESCRIPTION		SAMPLE AIRPLANE		YOUR AIRPLANE	
		Weight (lbs.)	Moment (Lb-ins. /1000)	Weight (lbs.)	Moment (Lb-ins. /1000)
	Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1642	62.6		
	Usable Fuel (At 6 Lbs./Gal.)				
	53 Gallons Maximum				
	30 Gallons (Quantity used for example)	180	8.6		
3.	Pilot and Front Passenger (Station 34 to 46)	340	12.6		
4. 1	Rear Passengers	340	24.8		D=127. 111.22
5.	*Baggage Area 1 (Station 82 to 108; 120 Lbs. Max.)	56	4.6		
6.	*Baggage Area 2 (Station 108 to 142; 50 Lbs. Max.)				
	RAMP WEIGHT AND MOMENT (add columns)	2558	113.2		
:	Fuel allowance for engine start, taxi and runup	-8.0	-0.4		
	TAKEOFF WEIGHT AND MOMENT (Subtract Step 8 from Step 7)	2550	112.8		

Locate this point (2550 at 112.8) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.

The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 pounds.

Figure 6-5. Sample Loading Problem (Sheet 1 of 2)



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Figure 6-7. Center of Gravity Moment Envelope

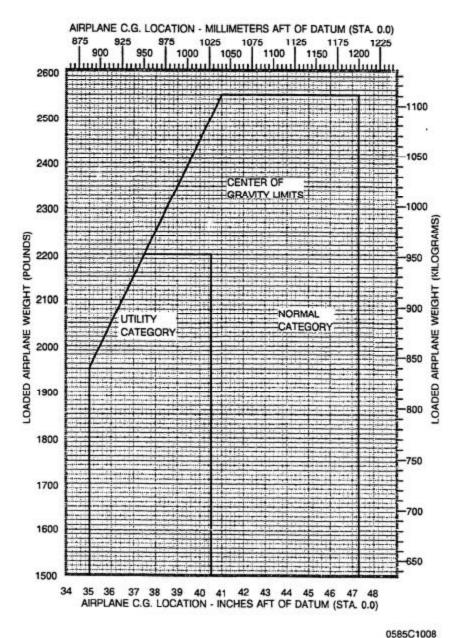


Figure 6-8. Center of Gravity Limits